Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Name of Work: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05

				Estimate cost, Rs			30.00 Lakhs	
DETAILED QUANTITY CALCULATION & COST ESTIMATE								
Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
Civil Works								
3200-10.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. I. By Manual Means: A. In area of light jungle. MORTH Specification No. 201. (SOR 2016-2017, Page 136, Item No 18.13)								
Basic Rate	48878.00							
Add Area weightage of 8%	3910.24							
Sub Total	52788.24							
	Ha	1	145.00	80.00		11600.00		
						1.16	52788.24	61235.00
Excavation in Soil with Dozer 3200-11. Excavation for road way in all types of soil by mechanical means including cutting and loading the earth to site of embankment including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. MORTH Specification No. 201. (SOR 2016-2017, Page 143, Item No 19.11)								
Basic Rate	68.00							
Add Area weightage of 8%	5.44							
Sub Total	73.44							
Lead 15 Kms	116.00							
Total	189.44							
Chain Link Fencing	Cum							
		1	475.00	0.75	0.70	250.00		
						250.00	189.44	47360.00
4.1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ kgs. with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.42cum machine mixed, machine mixed. concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2 (SOR 2016-2017, Page 12, Item No 4.3)								
Basic Rate	4867.00							
Add Area weightage of 8%	389.36							
Sub Total	5256.36							
Chain Link Fencing	Cum							
		1	475.00	0.75	0.15	53.44		
						53.44	5256.36	280887.00
5.2.2 : Providing and constructing granite / trap / basalt size stone masonry in foundation and cement mortar 1 : 6 stone hammerd dressed in courses not less than 20 ems high, bond stones at 1sqmt in each course including cost of materials, labour, curing complete as per specifications. KBS (SOR 2016-2017, Page 23, Item No 5.5)								
Basic Rate	4187.00							
Add Area weightage of 8%	334.96							
Sub Total	4521.96							
	Cum	1	475.00	0.60	0.45	128.25		
Chain Link Fencing		1	472.00	0.45	0.45	95.58		
		-236	0.45	0.45	0.45	-21.51		
						202.32	4521.96	914904.00

	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
	BSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement@ [illegible] kgs. with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.(BCSR 2016-2017, Page 12, Item No 4.6)								
	Basic Rate	5441.00							
	Add Area weightage of 8%	435.28							
	Sub Total	5876.28							
	Coping	Cum							
			236	0.45	0.45	0.45	21.51		
			1	472.00	0.45	0.10	21.24		
							42.75	5876.28	251185.00
	BSRB 302200-4.1 Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification complete as per specifications. A. Granular material MORTH Specification No. 2250 (BCSR 2016-2017, Page 225, Item No 28.11)								
	Basic Rate	524.00							
	Add Area weightage of 8%	41.92							
	Sub Total	565.92							
	Chain Link Fencing	Cum	1	472.00	0.15	0.45	31.86		
							31.86	565.92	18031.00
	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.3)								
	Basic Rate	659.00							
	Add Area weightage of 8%	52.72							
	Sub Total	711.72							
	Chain Link Fencing	Sqm	1	472.00		1.80	849.60		
							849.60	711.72	604678.00
	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (BCSR 2016-2017, Page 262, Item No 37.2)								
	Basic Rate	819.00							
	Add Area weightage of 8%	65.52							
	Sub Total	884.52							
	Chain Link Fencing	m	236	2.25			531.00		
							531.00	884.52	469681.00
	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.4)								
	Basic Rate	324.00							
	Add Area weightage of 8%	25.92							
	Sub Total	349.92							
	Chain Link Fencing	m	2	472.00			944.00		
							944.00	349.92	330325.00

Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. (BCSR 2016-2017, Page 42, Item No 7.37)								
Basic Rate	2934.00							
Add Area weightage of 8%	234.72							
Sub Total	3168.72							
Gate	Sqm	1	3.00	2.25		6.75		
						6.75	3168.72	21389.00
							Total Cost of Construction, Rs.	2999675.00
							Rounding Off, Rs.	325.00
							Total Project Cost, Rs.	3000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017.and Data Rates

Assistant Engineer,
Yelahanka Project Division

Asst. Exec. Engineer,
Yelahanka Project Division

Executive Engineer,
Yelahanka Project Division

Administrative Approval

Accorded For ...30.00 lakhs
Head of A/C...P-3119
CER NO :...56/17-18. Dt:...9/10/17

E.E. (Project)

Technical Sanction

Accorded For Rs.30.00 lakhs
Head of A/C..P-3119 ....
CER NO :..240/17-18. Dt:10/10/17

SE (YNK)